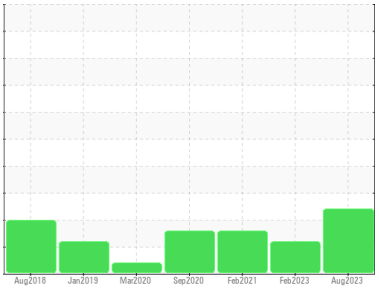
PROBLEM SUMMARY

Sample Rating Trend

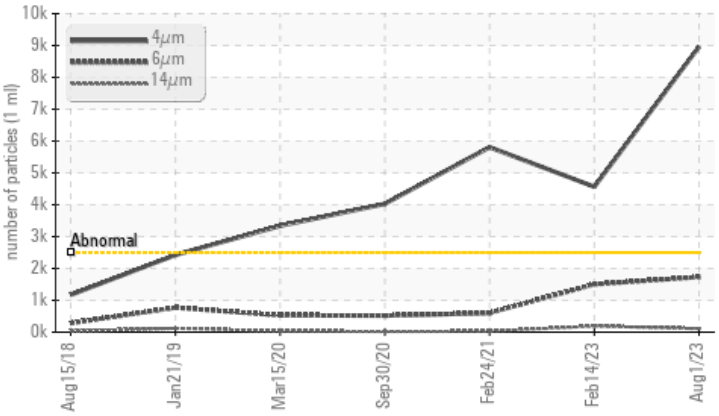


ADDITIVES

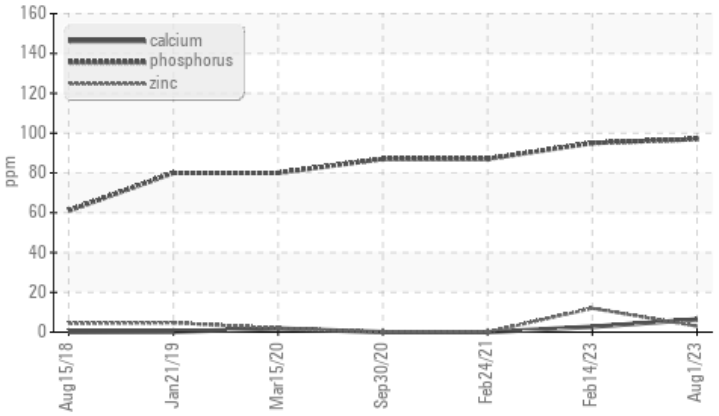
Area
076 G1 [2697536]
Machine Id
B-9002 Blower (S/N LR97-639)
Component
Blower
Fluid
SHELL CORENA P 100 (12 GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



Additives



RECOMMENDATION

Confirm oil reference for machine. No other action required at this time. Resample at next normal interval.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Calcium	ppm	ASTM D5185m	60	▲ **6**	▲ 3	▲ 0
Zinc	ppm	ASTM D5185m	190	▲ **3**	▲ 12	▲ 0
Sulfur	ppm	ASTM D5185m	1300	▲ **50**	▲ 27	▲ 120
Particles >4µm		ASTM D7647	>2500	▲ **8962**	4564	5808
Particles >6µm		ASTM D7647	>640	▲ **1730**	1501	601
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **20/18/14**	19/18/15	20/16/12

Customer Id: HEXGEI
Sample No.: PLS0000670
Lab Number: 05935314
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Mike Johnson +1 (615)771-6030
mike.johnson@amrri.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Feb 2023 Diag: Mike Johnson

ADDITIVES

Confirm oil reference for machine. No other action required at this time. Resample at next normal interval.Wear particles are low and acceptable. Contamination is on par with new unfiltered oil. Fluid health indicators do not match the reference oil, but are steady compared to previous samples.

view report

24 Feb 2021 Diag: Mike Johnson

ADDITIVES

Sample at next normal interval.The wear debris levels in this sample are low and appropriate. The PQ value, which reflects larger ferromagnetic particles, is slightly elevated. There is no indication of lubricant health problems in this sample. The fluid is acceptable for continued use. There is no indication of lubricant health problems in this sample. The fluid is acceptable for continued use. Without a reference sample it is particularly difficult to make a judgement call about the relative health of the fluid.

view report

30 Sep 2020 Diag: Mike Johnson

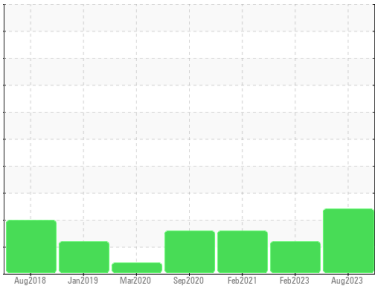
ADDITIVES

No other corrective actions. Sample at the regular intervalWear rate is low and steady. Particulate levels are typical for new oil from the drum. Filter is possible. Additive levels are not consistent with Corena P 100 fluid, but additives levels are steady, and the fluid properties suggest the oil is acceptable for continued use.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES

Area
076 G1 [2697536]
Machine Id
B-9002 Blower (S/N LR97-639)
Component
Blower
Fluid
SHELL CORENA P 100 (12 GAL)

DIAGNOSIS

▲ Recommendation
Confirm oil reference for machine. No other action required at this time. Resample at next normal interval.

Wear
Wear particles are low and acceptable.

▲ Contamination
Contamination is on par with new unfiltered oil. Filtration can help extend machine life.

▲ Fluid Condition
Fluid health indicators do not match the reference oil, but are steady compared to previous samples.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PLS0000670**	PLS0000547	PLS0000326
Sample Date		Client Info		**01 Aug 2023**	14 Feb 2023	24 Feb 2021
Machine Age	yrs	Client Info		**3**	4	0
Oil Age	yrs	Client Info		**1**	1	8
Oil Changed		Client Info		**Not Changd**	Changed	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**24**	21	29
Iron	ppm	ASTM D5185m	>20	**<1**	<1	2
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**<1**	<1	1
Tin	ppm	ASTM D5185m	>20	**<1**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

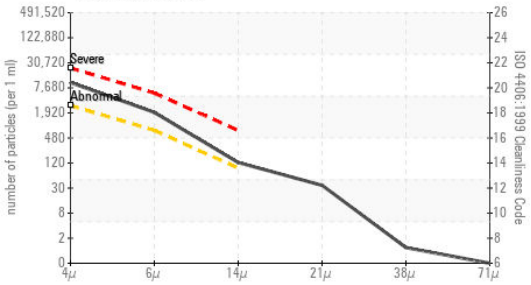
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	1
Barium	ppm	ASTM D5185m	0	**0**	<1	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	0	**0**	0	<1
Calcium	ppm	ASTM D5185m	60	▲ **6**	▲ 3	▲ 0
Phosphorus	ppm	ASTM D5185m	0	**97**	95	▲ 87
Zinc	ppm	ASTM D5185m	190	▲ **3**	▲ 12	▲ 0
Sulfur	ppm	ASTM D5185m	1300	▲ **50**	▲ 27	▲ 120

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	0

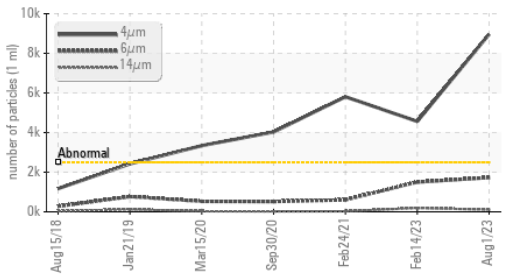
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.1**	0.2	0.2
Nitration	Abs/cm	*ASTM D7624		**16.5**	16.0	16.5
Sulfation	Abs/.1mm	*ASTM D7415		**153.7**	139.6	160.8

OIL ANALYSIS REPORT

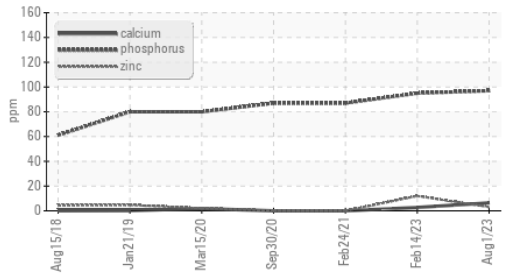
▲ Particle Count



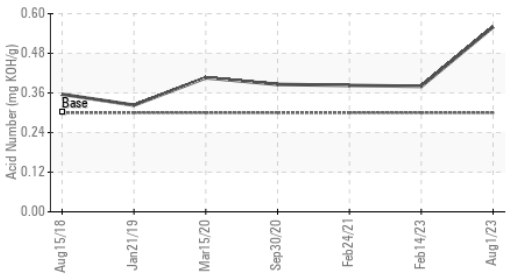
▲ Particle Trend



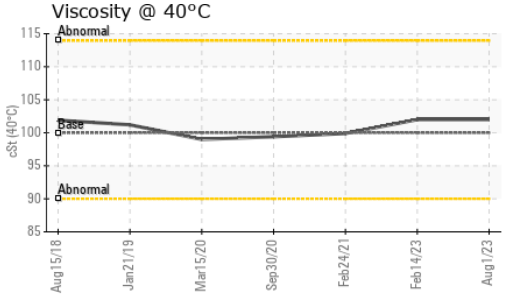
▲ Additives



Acid Number



Viscosity @ 40°C

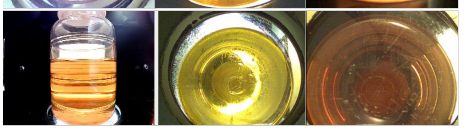


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **8962**	4564	5808
Particles >6µm		ASTM D7647	>640	▲ **1730**	1501	601
Particles >14µm		ASTM D7647	>80	**109**	192	26
Particles >21µm		ASTM D7647	>20	**31**	58	7
Particles >38µm		ASTM D7647	>4	**1**	2	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **20/18/14**	19/18/15	20/16/12

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**201.8**	196.4	207.9
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	**0.56**	0.38	0.383

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual		**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	**102**	102	99.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PLS0000670 **Received** : 25 Aug 2023
Lab Number : 05935314 **Diagnosed** : 28 Aug 2023
Unique Number : 10620585 **Diagnostician** : Mike Johnson
Test Package : IND 2 (Additional Tests: FT-IR, PQ, PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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